



seqlist.txt

#7

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TECH CENTER 1600/2900

SEQUENCE LISTING

<110> Franklin, Richard L.  
Cowling, Didier S.P.  
Hubbel, Jeffrey A.  
van de Wetering, Petra

<120> Treatment of Trauma

<130> 314572-105

<140> 09/938,269

<141> 2001-08-23

<160> 17

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 300

<212> PRT

<213> Panaeu vanameii

<400> 1

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Leu | Ala | Leu | Val | Ala | Ala | Ala | Ser | Ala | Ala | Glu | Trp | Arg | Trp |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gln | Phe | Arg | His | Pro | Thr | Val | Thr | Pro | Asn | Pro | Arg | Ala | Lys | Asn | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Phe | Arg | Val | Thr | Lys | Ser | Ser | Pro | Val | Gln | Pro | Pro | Ala | Val | Arg | Gly |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Lys | Ala | Val | Glu | Asn | Cys | Gly | Pro | Val | Ala | Pro | Arg | Asn | Lys | Ile |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Val | Gly | Gly | Met | Glu | Val | Thr | Pro | His | Ala | Tyr | Pro | Trp | Gln | Val | Gly |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Leu | Phe | Ile | Asp | Asp | Met | Tyr | Phe | Cys | Gly | Gly | Ser | Ile | Ile | Ser | Asp |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Trp | Val | Leu | Thr | Ala | Ala | His | Cys | Met | Asp | Gly | Ala | Gly | Phe | Val |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Val | Val | Met | Gly | Ala | His | Ser | Ile | His | Asp | Glu | Thr | Glu | Ala | Thr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gln | Val | Arg | Ala | Thr | Ser | Thr | Asp | Phe | Phe | Thr | His | Glu | Asn | Trp | Asn |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Phe | Thr | Leu | Ser | Asn | Asp | Leu | Ala | Leu | Ile | Lys | Met | Pro | Ala | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Ile | Glu | Phe | Asn | Asp | Val | Ile | Gln | Pro | Val | Cys | Leu | Pro | Thr | Tyr | Thr |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |

```

Asp Ala Ser Asp Asp Phe Val Gly Glu Ser Val Thr Leu Thr Gly Trp
      180      185      190
Gly Lys Pro Ser Asp Ser Ala Phe Gly Ile Ala Glu Gln Leu Arg Glu
      195      200      205
Val Asp Val Thr Thr Ile Thr Thr Ala Asp Cys Gln Ala Tyr Tyr Gly
      210      215      220
Ile Val Thr Asp Lys Ile Leu Cys Ile Asp Ser Glu Gly Gly His Gly
      225      230      235      240
Ser Cys Asn Gly Asp Ser Gly Gly Pro Met Asn Tyr Val Thr Gly Gly
      245      250      255
Val Thr Gln Thr Arg Gly Ile Thr Ser Phe Gly Ser Ser Thr Gly Cys
      260      265      270
Glu Thr Gly Tyr Pro Asp Gly Tyr Thr Arg Val Thr Ser Tyr Leu Asp
      275      280      285
Trp Ile Glu Ser Asn Thr Gly Ile Ala Ile Asp Pro
      290      295      300

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<210> 2
<211> 25
<212> PRT
<213> Panaeus vanameii

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```

<400> 2
Ile Val Gly Gly Val Glu Ala Thr Pro His Ser Trp Pro His Gln Ala
 1          5          10          15
Ala Leu Phe Ile Asp Asp Met Tyr Phe
      20          25

```

```

<210> 3
<211> 20
<212> PRT
<213> Panaeus vanameii

```

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<220>
<221> VARIANT
<222> (1)...(20)
<223> Xaa = Any Amino Acid

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```

<400> 3
Ile Val Gly Gly Val Glu Ala Thr Pro His Ser Xaa Pro His Gln Ala
 1          5          10          15
Ala Leu Phe Ile
      20

```

```

<210> 4
<211> 25
<212> PRT
<213> Panaeus monodon tryptic

```

&lt;400&gt; 4

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Thr | Ala | Val | Thr | Pro | Gly | Glu | Phe | Pro | Tyr | Gln | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Phe | Gln | Asp | Ser | Ile | Glu | Gly | Val |     |     |     |     |     |     |     |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     |     |     |     |     |

&lt;210&gt; 5

&lt;211&gt; 25

&lt;212&gt; PRT

<213> *Panaeus monodon* chymotryptic

&lt;400&gt; 5

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Val | Glu | Ala | Val | Pro | Gly | Val | Trp | Pro | Tyr | Gln | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Leu | Phe | Ile | Ile | Asp | Met | Tyr | Phe |     |     |     |     |     |     |     |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     |     |     |     |     |

&lt;210&gt; 6

&lt;211&gt; 25

&lt;212&gt; PRT

<213> *Panaeus monodon* chymotryptic

&lt;400&gt; 6

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Val | Glu | Ala | Val | Pro | His | Ser | Trp | Pro | Tyr | Gln | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Leu | Phe | Ile | Ile | Asp | Met | Tyr | Phe |     |     |     |     |     |     |     |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     |     |     |     |     |

&lt;210&gt; 7

&lt;211&gt; 25

&lt;212&gt; PRT

<213> *Uca pugilator* enzyme

&lt;400&gt; 7

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Val | Glu | Ala | Val | Pro | Asn | Ser | Trp | Pro | His | Gln | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Leu | Phe | Ile | Asp | Asp | Met | Tyr | Phe |     |     |     |     |     |     |     |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     |     |     |     |     |

&lt;210&gt; 8

&lt;211&gt; 20

&lt;212&gt; PRT

<213> *Uca pugilator* enzyme

&lt;400&gt; 8

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Gln | Asp | Ala | Thr | Pro | Gly | Gln | Phe | Pro | Tyr | Gln | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

Ser Phe Gln Asp  
20

<210> 9  
<211> 20  
<212> PRT  
<213> Kamchatka crab

<220>  
<221> VARIANT  
<222> (1)...(20)  
<223> Xaa = Any Amino Acid

<400> 9  
Ile Val Gly Gly Gln Glu Ala Ser Pro Gly Ser Trp Pro Xaa Gln Val  
1 5 10 15  
Gly Leu Phe Phe  
20

<210> 10  
<211> 20  
<212> PRT  
<213> Kamchatka crab

<400> 10  
Ile Val Gly Gly Thr Glu Val Thr Pro Gly Glu Ile Pro Tyr Gln Leu  
1 5 10 15  
Ser Leu Gln Asp  
20

<210> 11  
<211> 20  
<212> PRT  
<213> Kamchatka crab

<400> 11  
Ile Val Gly Gly Thr Glu Val Thr Pro Gly Glu Ile Pro Tyr Gln Leu  
1 5 10 15  
Ser Phe Gln Asp  
20

<210> 12  
<211> 20  
<212> PRT  
<213> Kamchatka crab

<220>  
<221> VARIANT

<222> (1)...(20)

<223> Xaa = Any Amino Acid

<400> 12

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Ser | Glu | Ala | Thr | Ser | Gly | Gln | Phe | Pro | Tyr | Gln | Xaa |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Phe | Gln | Asp |     |     |     |     |     |     |     |     |     |     |     |     |
|     |     |     | 20  |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 13

<211> 20

<212> PRT

<213> Crayfish protease

<400> 13

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Thr | Asp | Ala | Thr | Leu | Gly | Glu | Phe | Pro | Tyr | Gln | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Phe | Gln | Asn |     |     |     |     |     |     |     |     |     |     |     |     |
|     |     |     | 20  |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 14

<211> 25

<212> PRT

<213> Salmon enzyme

<400> 14

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Tyr | Glu | Cys | Lys | Ala | Tyr | Ser | Gln | Ala | Tyr | Gln | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Leu | Asn | Ser | Gly | Tyr | His | Tyr | Cys |     |     |     |     |     |     |     |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     |     |     |

<210> 15

<211> 25

<212> PRT

<213> Atlantic cod

<400> 15

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Val | Gly | Gly | Tyr | Glu | Cys | Thr | Lys | His | Ser | Gln | Ala | His | Gln | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Leu | Asn | Ser | Gly | Tyr | His | Tyr | Cys |     |     |     |     |     |     |     |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     |     |     |

<210> 16

<211> 25

<212> PRT

<213> Atlantic cod

<400> 16

Ile Val Gly Gly Tyr Glu Cys Thr Arg His Ser Gln Ala His Gln Val  
1 5 10 15  
Ser Leu Asn Ser Gly Tyr His Tyr Cys  
20 25

<210> 17

<211> 37

<212> PRT

<213> Atlantic cod

<400> 17

Ile Val Gly Gly Tyr Gln Cys Glu Ala His Ser Gln Ala His Gln Val  
1 5 10 15  
Ser Leu Asn Ser Gly Tyr His Tyr Cys Gly Gly Ser Leu Ile Asn Trp  
20 25 30

Val Val Ser Ala Ala  
35